

CLAIM SET AS AMENDED

Claim 1. (Previously Amended) A non-contact information medium comprising:

a booster unit having a first coil, capable of wireless-communicating with an external apparatus by utilizing an electromagnetic induction; and

an IC (integrated circuit) module capable of communicating with said external apparatus via said booster unit in a non-contact manner in such a way that said IC module includes IC element and a second coil electrically connected and formed integrally with said IC element for transmitting/receiving data to/from said external apparatus through said first coil formed on said booster unit.

Claims 2 and 3 (Cancelled).

Claim 4. (Previously Amended) A non-contact information medium as claimed in claim 1 wherein:

said IC element owns a memory unit.

Claim 5. (Original) A non-contact information medium as claimed in claim 1 wherein:

said booster unit includes a capacitor provided with such a condition that said capacitor is resonated in combination with said coil at a carrier frequency transmitted by said external apparatus.

Claim 6. (Original) A non-contact information medium as claimed in claim 1 wherein:

said booster unit is further comprised of a capacitor which constitutes a series-resonant circuit in combination with said first coil.

Claim 7. (Original) A non-contact information medium as claimed in claim 1 wherein:

said booster unit is further comprised of a capacitor which constitutes a parallel-resonant circuit in combination with said first coil.

Claim 8. (Original) A non-contact information medium as claimed in claim 1 wherein:

said first coil and said second coil are arranged under overlap state in order that a magnetic flux direction of said first coil is made substantially coincident with a magnetic flux direction of said second coil.

Claim 9. (Currently Amended) A non-contact information medium as claimed in claim 1 wherein:

said non-contact information medium is further comprised of a supporting member; said first coil is arranged on one surface of said supporting member; and said second coil is arranged on the other surface of said supporting member in such a manner that said second coil is positioned opposite to said first coil.

Claim 10. (Original) A non-contact information medium as claimed in claim 1 wherein:

in said non-contact information medium, said second coil is arranged inside said first coil.

Claim 11. (Original) A non-contact information medium as claimed in claim 1 wherein:

said booster unit is further comprised of:

a third coil for receiving an induction current produced in said first coil and electromagnetically coupled to said second coil.

Claims 12-22 (Cancelled).

Claim 23. (Withdrawn) A checking system comprising:

a non-contact probe antenna capable of communicating with a non-contact IC module in a non-contact manner; and

a checking apparatus connected to said non-contact probe antenna, in which said non-contact probe antenna checks said non-contact IC module in response to a signal received from said non-contact IC module.

Claim 24. (Withdrawn) A method for manufacturing a non-contact information medium, comprising:

a step for communicating with a non-contact IC (integrated circuit) module by employing a non-contact probe antenna;

a step in which said non-contact probe antenna checks said non-contact IC module in response to a signal received from said non-contact IC module; and

a step for mounting on a base member, only the non-contact IC module which could satisfy a predetermined requirement in said checking step.

Claim 25. (Withdrawn) A communication system comprising:

a non-contact information medium;

an external apparatus capable of communicating with said non-contact information medium by utilizing a carrier having a first frequency as a carrier frequency; and

a communication auxiliary apparatus electromagnetically coupled to said external apparatus, and capable of emphasizing a second frequency produced by utilizing said first frequency, said second frequency being different from said first frequency.

Claim 26. (Withdrawn) A communication system as claimed in claim 25 wherein:

said first frequency is equal to a carrier frequency, and said second frequency is equal to a sub-carrier frequency which is produced by frequency-dividing said carrier frequency.

Claim 27. (Withdrawn) A communication system as claimed in claim 25 wherein:

said external apparatus includes a first transmitter unit for transmitting first data to said non-contact information medium in such a manner that said first data to be sent to said non-contact information medium is modulated by utilizing said first frequency; and

said non-contact information medium owns a second transmitter unit for transmitting second data to the external apparatus in such a manner that said second data to be sent to said external apparatus is modulated by using said second frequency.

Claim 28. (Withdrawn) A communication system as claimed in claim 25
wherein:

said non-contact information medium includes a first antenna;
said external apparatus includes a second antenna; and
said communication auxiliary apparatus includes a third antenna which is
made coincident with a normal direction of said second antenna.

Claim 29. (Withdrawn) A communication system as claimed in claim 25
wherein:

said non-contact information medium includes a first antenna;
said external apparatus includes a second antenna; and
said communication auxiliary apparatus includes a third antenna which is
inclined with respect to a normal direction of said second antenna.

Claim 30. (Withdrawn) A communication system as claimed in claim 25
wherein:

said non-contact information medium includes a first antenna;
said external apparatus includes a second antenna; and
said communication auxiliary apparatus includes a third antenna; and

said first antenna is capable of communicating with said second antenna via said third antenna at a position separated from a normal line of said second antenna.

Claim 31. (Withdrawn) A communication system as claimed in claim 25 wherein:

said communication system includes a plurality of said communication auxiliary apparatuses; and at least one of said plural communication auxiliary apparatuses is electromagnetically coupled via any one of the remaining plural communication auxiliary apparatuses in an indirect manner.

Claim 32. (Withdrawn) A communication system comprising:

a non-contact information medium;

an external apparatus capable of communicating with said non-contact information medium by utilizing a carrier having a first frequency as a carrier frequency; and

a first communication auxiliary apparatus electromagnetically coupled to said external apparatus, capable of emphasizing said first frequency; and

a second communication auxiliary apparatus electromagnetically coupled to said external apparatus, capable of emphasizing said second frequency.

Claim 33. (Withdrawn) A communication auxiliary apparatus comprising:
a base member; and

a communication unit coupled to said base member and electromagnetically coupled to said external apparatus, said communication unit being capable of emphasizing a second frequency different from a first frequency in such a case that an external apparatus is capable of communicating with a non-contact information medium by utilizing a carrier having a first frequency as a carrier frequency, said second frequency being produced by using said first frequency.